

## WHAT IS CLAIMED IS:

1. A portable terminal connectable to various external accessories, comprising:

- 5 an earjack in which the external accessories can be coupled;  
an analog-to-digital conversion (ADC) section for converting a resistance value of an external accessory coupled to the earjack into an ADC value;  
a memory for storing ADC values of the external accessories; and  
a controller for converting a resistance value of the external accessory coupled  
10 to the earjack into an ADC value by controlling the ADC section, determining a type of an external accessory coupled to the earjack by comparing the converted ADC value with the ADC values stored in the memory, and performing a function of the plugged-in external accessory via a corresponding pin of the earjack.

15 2. The portable terminal of claim 1, wherein the earjack comprises:

- a ground pin;  
a microphone pin;  
a speaker pin;  
an interrupt pin for detecting an external accessory coupled to the earjack;  
20 an ADC pin for detecting a resistance value of the external accessory coupled to the earjack;  
a received data pin for receiving data;  
a transmit data pin for transmitting data;  
a serial clock pin;  
25 a serial data pin for performing data communication in association with the serial clock pin; and  
a trigger pin for detecting a flash coupled to the earjack.

3. The portable terminal of claim 1, further comprising:

- 30 a power supply for powering the external accessory coupled to the earjack; and  
a regulator for providing a constant voltage from the power supply to an external accessory that requires a constant voltage.

4. A method for controlling a portable terminal connectable to various external accessories, comprising the steps of:

- (a) detecting a resistance value of an external accessory coupled to an earjack;
- 5 (b) converting the resistance value into an analog-to-digital conversion (ADC) value;
- (c) determining what type of external accessory is coupled to the earjack based on the converted ADC value; and
- (d) performing a function of the coupled external accessory via a
- 10 corresponding pin of the earjack.

5. The method of claim 4, wherein the step (a) comprises the steps of:  
generating an interrupt signal via an interrupt pin of the earjack when an external accessory is coupled to the earjack;

- 15 detecting insertion of the external accessory through the interrupt signal; and
- detecting a resistance value of the coupled external accessory through an ADC pin of the earjack.

6. The method of claim 4, wherein the step (d) comprises the steps of:  
20 performing an earphone function or a stereo earphone function via a ground pin, a microphone pin and a speaker pin of the earjack when the coupled external accessory is an earphone or a stereo earphone;

performing an FM stereo earphone function or an MP3 function via the ground pin, the microphone pin, the speaker pin, a serial clock pin and a serial data pin of the

25 earjack when the coupled external accessory is an FM stereo earphone or an MP3 player;

performing a function of an external flash via the ground pin and a trigger pin of the earjack when the coupled external accessory is an external flash; and

performing a function of an external camera, an external camera with a flash or

30 a Bluetooth module via the ground pin, a received data pin and a transmit data pin when the plugged-in external accessory is the external camera, the external camera with a flash or the Bluetooth module.